

FIG. 1

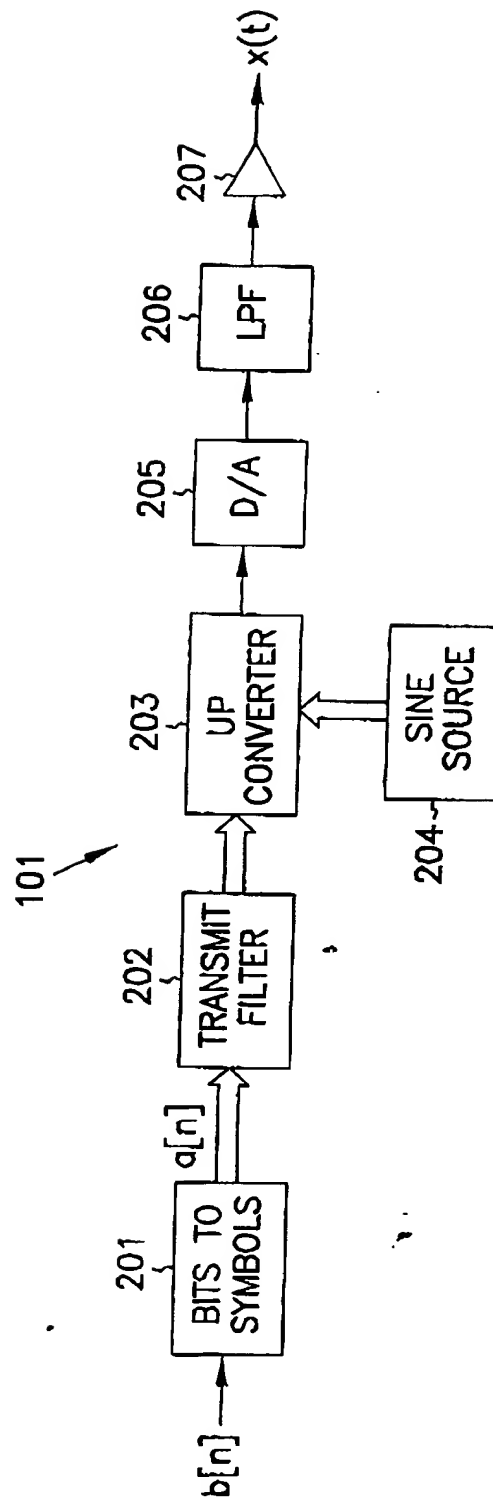


FIG. 2

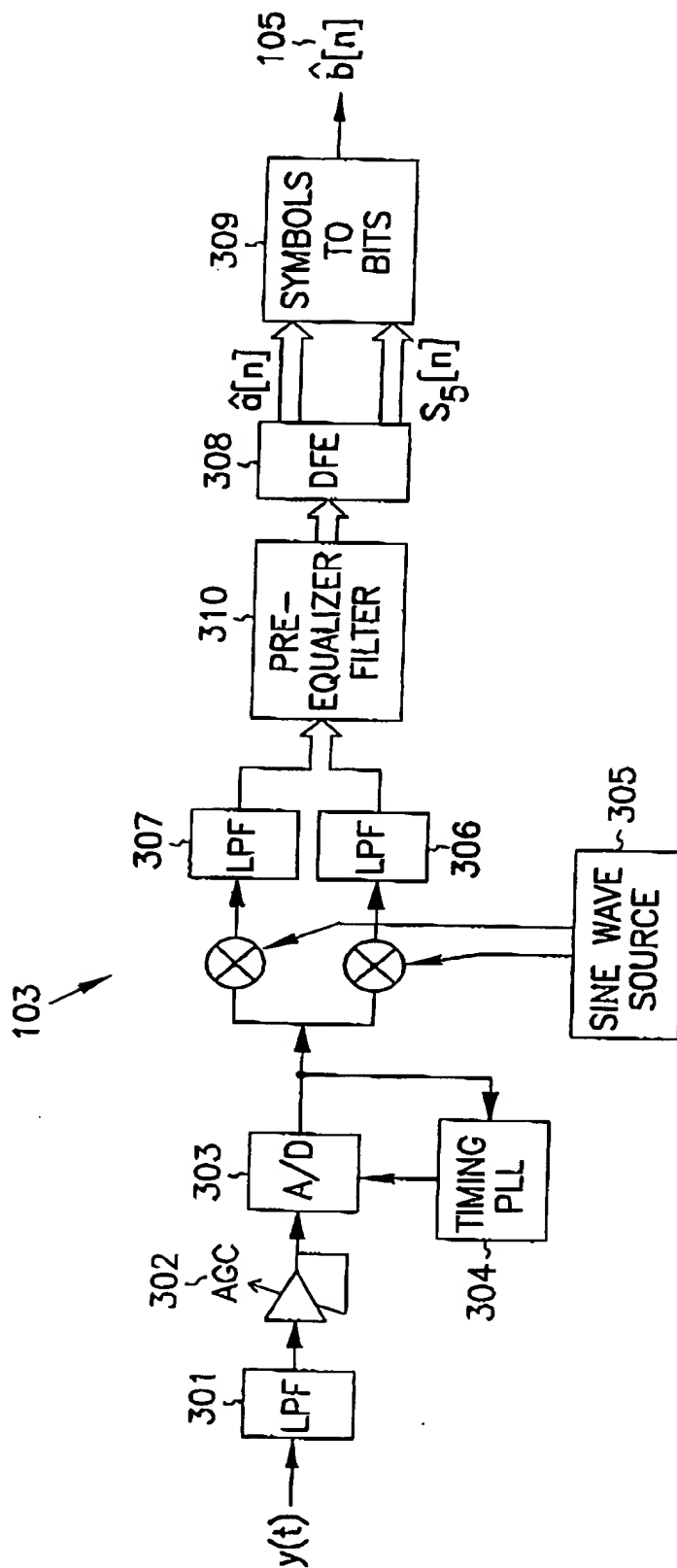


FIG. 3

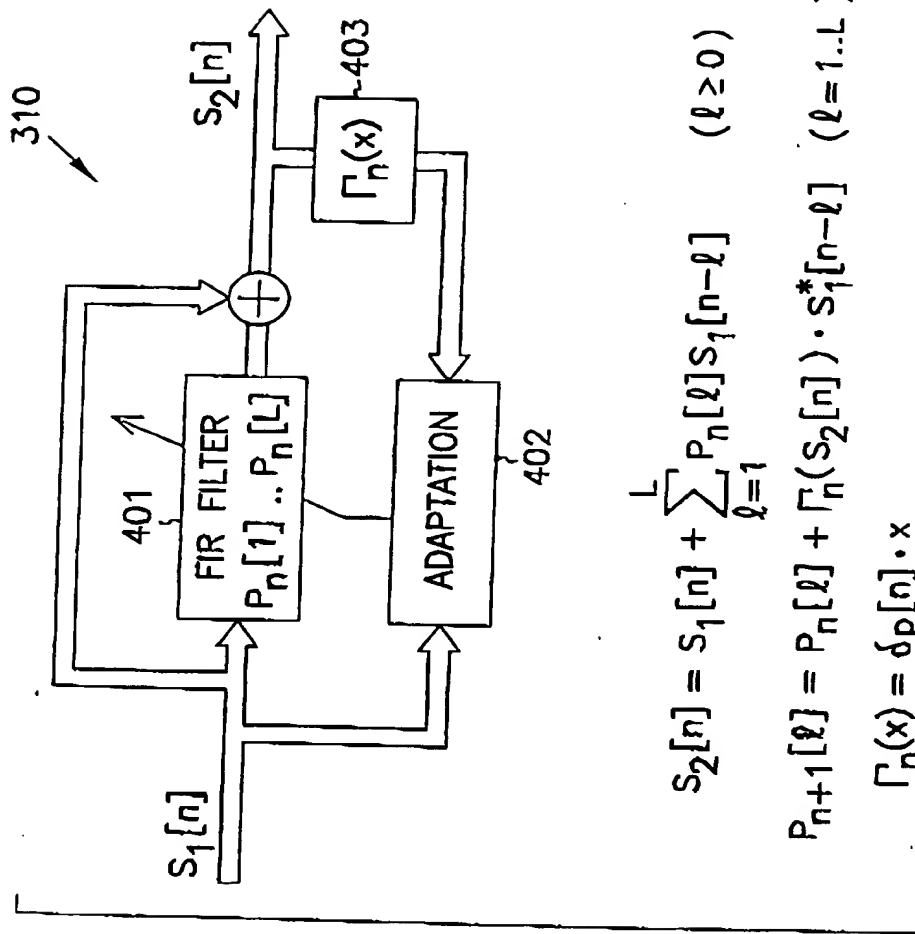


FIG. 4

$$S_2[n] = S_1[n] + \sum_{\ell=1}^L P_n[\ell] S_1[n-\ell] \quad (\ell \geq 0)$$

$$P_{n+1}[\ell] = P_n[\ell] + \Gamma_n'(S_2[n]) \cdot S_1^*[n-\ell] \quad (\ell = 1..L)$$

$$\Gamma_n'(x) = \delta p[n] \cdot x$$

005240" 6900E260

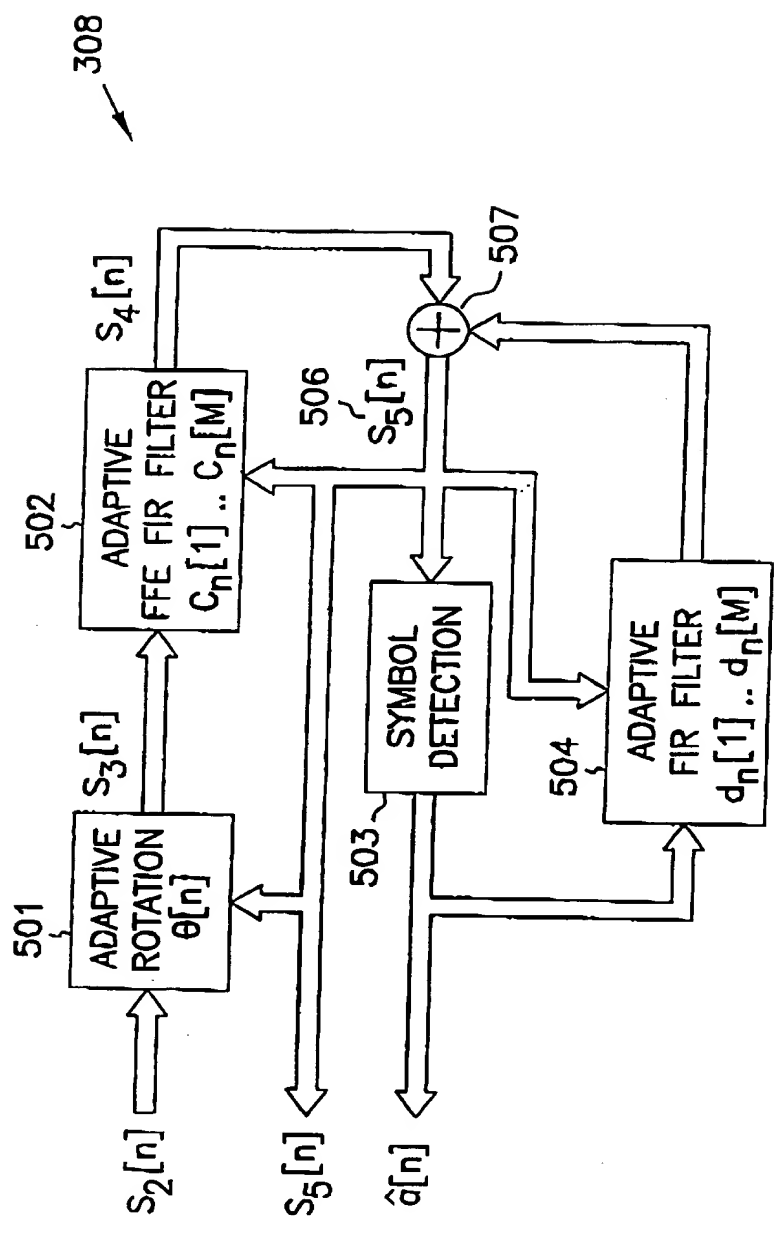


FIG. 5

$$\begin{aligned}
 S_3[n] &= S_2[n] \cdot e^{j\theta[n]} & , \quad \theta[n+1] &= \theta[n] + \rho_n(S_5[n]) \\
 S_4[n] &= \sum_{m=1}^M C_n[m] S_3[n-m] & , \quad C_{n+1}[m] &= C_n[m] + \varphi_n(S_5[n]) S_3^*[n-m] \\
 S_5[n] &= S_4[n] + \sum_{i=1}^N d_n[i] \hat{a}[n-i] & , \quad d_{n+1}[i] &= d_n[i] + \varphi_n(S_5[n]) \hat{a}^*[n-i] \quad (M \geq 1, N \geq 0)
 \end{aligned}$$